

Directed Reading A

Section: Three States of Matter

1. What are the three most familiar states of matter?

2. What is a state of matter?

PARTICLES OF MATTER

3. Matter is made up of _____ and _____.

Match the correct description with the correct state of matter. Write the letter in the space provided.

- | | |
|--|-----------|
| _____ 4. Particles do not move fast enough to overcome the strong attraction between them. | a. solid |
| _____ 5. Particles move independently of each other. | b. liquid |
| _____ 6. Particles are close together but can slide past one another. | c. gas |
| _____ 7. Particles are close together and vibrate in place. | |
| _____ 8. Particles move fast enough to overcome nearly all of the attraction between them. | |

SOLIDS

- _____ 9. The particles of matter that make up a solid
- a. have a weaker attraction than those of a liquid.
 - b. do not move at all.
 - c. do not move fast enough to overcome the force of attraction.
 - d. move from place to place.

Directed Reading A *continued*

10. What is a solid?

11. How are the particles in a crystalline solid arranged?

12. How are the particles in an amorphous solid arranged?

LIQUIDS

13. How do the particles of a liquid make it possible to pour juice into a glass?

14. A beaker and a cylinder each contain 350 mL of juice. What does this show you about the properties of a liquid?

15. Liquids tend to form spherical droplets because of _____
tension.

16. Water has a lower _____ than honey.

GASES

17. What is a gas?

18. How is it possible for one tank of helium to fill 700 balloons?
